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PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : HORST HENKEL

SERIAL NO. : 10/536,524

PCT NO. : PCT/DE2003/00391 PCT FILED: NOVEMBER 25, 2003

TITLE : CAST PART FOR AN INTERNAL COMBUSTION ENGINE



MAIL STOP: AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

S I R :

Applicants are enclosing Form PTO-1449 disclosing thirteen (13) references cited by the German Examiner and/or the International Search Report (copy enclosed).

Since it is believed that copies of the references in the International Search Report were submitted by the International Office, no copies are enclosed. In addition, as this application is being filed after June 30, 2003, copies of any U.S. Patents disclosed are not included in accordance with current Patent Office guidelines.

The following references were cited by the German Examiner and are enclosed for your review:

(1) DE 43 35 492, which corresponds to EP 648,927, discloses a cast crankcase. Oil is supplied to the main bearings from a main oil duct via tubes but these tubes are not embedded when the crankcase is cast. The tubes are inserted in bores which are introduced subsequently into the case crankcase.

(2) US 2,966,146 was cited by the German examiner. An engine is described which comprises spray nozzles formed as tubes for piston cooling and lubrication of the cylinder walls. The oil tubes are subsequently mounted in the crankcase and are individually removable for replacement or repair. The oil tubes are not embedded during casting.

(3) DE 30 10 635 does not comprise oil tubes at all. Lubricant is supplied to crankshaft and camshaft bearings via passages which are drilled.

(4) DE 199 61 092 describes an internal combustion engine with a high performance cooling system. Cooling passages preformed as tubes are cast in place during fabrication of the cylinder block and especially in the cylinder head. The tubes are embedded for cooling purposes only and there is no mechanical step in which the tubes are drilled through so that a desired connection is produced.

(5) DE 198 18 589 describes a combustion engine which comprises a special coolant jacket disposed around a cylinder sleeve. The channels for cooling are implemented in the coolant jacket which is a separate component and is subsequently mounted in the crankcase. There are no tubes which are embedded during casting of the crankcase.

(6) DE 100 15 709 is not considered relevant since it discloses a piston with integrated tube-channels (reference No. 2, 7, 8) for cooling but not a cast cylinder crankcase.


(7) DE 37 23 468 seems to be of minor relevance. A cylinder head is described with comprises a region (ref. No. 2) in which a cavity (8) is provided in order to compensate stress caused by thermal strain. The cavity can be implemented by embedding a tube during the casting of the cylinder head. The embedded tube does not serve for guiding a fluid medium.

(8) DE 33 00 924 seems to be of minor relevance. A device for water-cooling of webs (ref. No. 5) that are formed between cylinders (3) of a cylinder block (1) is described. For this purpose, cooling jackets (4a, 4b) are connected to one another by channels (6) which are implemented in the form of a tube and embedded in the webs (5) during casting of the cylinder block.

It is respectfully requested that this Information Disclosure Statement be considered and placed into the application file.

Respectfully submitted,  
HORST HENKEL

COLLARD & ROE, P.C.  
1077 Northern Boulevard  
Roslyn, New York 11576  
(516) 365-9802

  
Allison C. Collard, Reg. No. 22,532  
Edward R. Freedman, Reg. No. 26,048  
Attorneys for Applicants

encl.: PTO FORM 1449; INTERNATIONAL Search Report; 8 references

I hereby certify that this document is being deposited with the U.S. Postal Service on August 24, 2005 as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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MARIA GUASTELLA

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.:  HENKEL, H. - 1 PCT	SERIAL NO.:  10/536,524
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		APPLICANT: HORST HENKEL	
		FILING DATE: MAY 25, 2005	GROUP:

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,295,963	10/2001	Christiansen, et al. (Intl. Srch. Rep.)			
	AB	2,966,146	12/1960	Schweitzer, et al. (German Patent Office)			
	AC	6158400	12/2000	Collie et al = DE 19961092			
		4 237 847	12/1980	BAUGH ET AL			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AE	DE 199 61 092	07/2000	GERMANY w/English Abstract (German Patent Office & in Spec.) = US6158400 enclosed				
	AF	DE 33 00 924	07/1984	GERMANY w/English Abstract (German Patent Office & in Spec.) enclosed				
	AG	WO 03/076108	09/2003	WORLD (Intl. Srch. Rep.)				
	AH	FR 2 727 727	06/1996	FRANCE (Intl. Srch. Rep.)				
	AI	EP 0 110 234	06/1984	EUROPE (Intl. Srch. Rep.)				
	AJ	EP1 116 536	07/2001	EUROPE (Intl. Srch. Rep.)				
	AK	DE 43 35 492	04/1995	GERMANY w/English Abstract (German PTO)(= EP 648,927)				
	AL	DE 30 10 635	10/1980	GERMANY w/English Abstract (German PTO) (= US 4,237, 847)				
	AM	DE 198 18 589	11/1999	GERMANY w/English Abstract (German PTO)				
	AN	DE 100 15 709	12/2001	GERMANY w/English Abstract (German PTO)				
	AO	DE 37 23 468	01/1989	GERMANY w/English Abstract (German PTO)				
	AP	EP 648 927	4/1995	EUROPEAN (w/English Abstract) = DE 4335492				

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	INTERNATIONAL SEARCH REPORT

EXAMINER	DATE CONSIDERED
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.